

IN THE CLAIMS

Please amend the claims as follows:

1 (Currently Amended) . A coated super-hard abrasive comprising

a core of super-hard abrasive material,

an inner layer of [[a]] at least one metal carbide, nitride, boride, carbonitride or boronitride selected from the group consisting of Ti, Cr, Zr, Ni, Ta, W, Al, B and silicon chemically bonded to an outer surface of the super-hard abrasive material, and

an outer layer of ~~a metal, metal alloy or a combination of metals or metal alloys~~ more than one metal or metal alloy selected from the group consisting of Ti, V, Cr, Mn, Fe, Co, Ni, Cu, W, Mo, Zr, B, Al, and Si deposited on the inner layer.

Claim 2 (Cancelled).

3. (Currently Amended) [[A]] The coated super-hard abrasive according to claim 1 [[2]], wherein the outer layer comprises an alloy and wherein the alloys comprise alloy comprises at least one additional metals metal selected from ~~the~~ platinum group metals and ~~metals from group 1b of the periodic table.~~

Claims 4 and 5 (Cancelled).

6. (Currently Amended) [[A]] The coated super-hard abrasive according to ~~any one of the preceding claims~~ claim 1, wherein the super-hard abrasive material is diamond or cBN based.

7. (Currently Amended) [[A]] The coated super-hard abrasive according to claim 6, wherein the super-hard abrasive material is ~~selected from the group comprising~~ diamond or cBN grit, a PCD substrate, a PcBN substrate, a thermally stable PCD (TSPCD) substrate, a CVD diamond film, ~~and~~ or a single crystal diamond substrate.

Claims 8 and 9 (Cancelled).

10. (Currently Amended) [[A]] The coated super-hard abrasive according to ~~any one of the preceding claims~~ claim 1, wherein the inner layer is a titanium or chromium carbide coating in the case of a diamond based core, or a titanium or chromium nitride, boride or boronitride coating in the case of a cBN based core.

11. (Currently Amended) [[A]] The coated super-hard abrasive according to ~~any one of the preceding claims~~ claim 1, wherein the outer layer comprises titanium, tungsten, copper, or combinations thereof.

12. (New) A method of making a coated super-hard abrasive comprising

coating a core of super-hard abrasive material with a first, inner layer of at least one metal carbide selected from the group consisting of Ti, Cr, Zr, Ni, Ta, W, Al, B and silicon to chemically bond to an outer surface of the super-hard abrasive material, and

depositing on the first layer a second, outer layer of at least one metal selected from the group consisting of Ti, V, Cr, Mn, Fe, Co, Ni, Cu, W, Mo, Zr, B, Al, Si, and alloys thereof.

13. (New) The method according to claim 12, wherein the second, outer layer is deposited by physical vapor deposition.

14. (New) The method according to claim 12, wherein the second, outer layer is deposited by PVD sputter coating.

15. (New) The method according to claim 12, wherein the second, outer layer comprises an alloy and wherein the alloy comprises at least one additional metal selected from platinum group metals.

16. (New) The method according to claim 12, wherein the super-hard abrasive material is diamond or cBN based.

17. (New) The method according to claim 12, wherein the super-hard abrasive material is diamond or cBN grit, a PCD substrate, a PcBN substrate, a thermally stable PCD (TSPCD) substrate, a CVD diamond film, or a single crystal diamond substrate.

18. (New) The method according to claim 12, wherein the first, inner layer is a titanium or chromium carbide coating in the case of a diamond based core, or a titanium or chromium nitride, boride or boronitride coating in the case of a cBN based core.

19. (New) The method according to claim 12, wherein the second, outer layer comprises titanium, tungsten, copper, or combinations thereof.